



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

[illegible]

Group Art Unit: 2621


**Examiner: Not Assigned**

Atty. Docket No. MIPFP170

Date: February 1, 2007

Confirmation No. 7640

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ria, VA 22313-1450 on February 1, 2007.  
  
 Diane Schwanbeck

Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313-1450

The references listed in the attached PTO Form 1449, copies of the non-U.S. references of which are attached, may be material to examination of the above-identified patent application. Applicant submits these references in compliance with his duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to consider these references and to acknowledge such consideration by initialing the appropriate locations on the attached PTO Form 1449.

References L-Q are in the Japanese language. The relevance of References L-Q may be ascertained by reviewing References R-W, which are English language abstracts of Reference L-Q, respectively. Also attached for the Examiner's use and information are copies of the following papers from the corresponding international application: 1) the International Search Report; and 2) the Written Opinion (in which References A-C, L, M, O-Q, and L-2 have been cited).

This Information Disclosure Statement (IDS) is being filed before the mailing date of a first Office Action on the merits. Accordingly, no fees are due in connection with the filing of this IDS. In the event it is determined that fees are due, then the Commissioner is hereby authorized to charge such fees to Deposit Account 50-0805 (Order No. MIPFP170).

Respectfully submitted,  
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Substitute for form 1449/PTO		Application Number	10/554,174
<b>Information Disclosure Statement By Applicant</b> (Use as many sheets as necessary)		Filing Date:	October 21, 2005
		First Named Inventor:	Ikuro HAYAISHI
		Art Unit:	2621
		Examiner Name:	
		Attorney Docket Number:	MIPFP170
Sheet 1 of 2	1	of	2

### U.S. Patent Documents

Examiner Initial	Cite No.	Document No.	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
	A	5,282,022	1/1994	Haruki et al.	
	B	2002/0018129	2/2002	Ikeda	
	C	2003/0001958	1/2003	Hoshuyama	
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				

### Foreign Patent Documents

Examiner Initial	Cite No.	Foreign Patent Document No.	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	Translation	
						YES	NO
	L	JP 03-232391	10/1991	Kikuchi et al.			x
	M	JP 2001-069526	3/2001	Okazaki			x
	N	JP 2001-320727	11/2001	Sakaida			x
	O	JP 2002-027491	1/2002	Ikeda			x
	P	JP 2002-315015	10/2002	Higuchi et al.			x
	Q	JP 2002-354498	12/2002	Hojuyama			x

### Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	R	Abstract of Japanese Patent Publication No. 03-232391, Pub. Date: 16 October 1991, Patent Abstracts of Japan
	S	Abstract of Japanese Patent Publication No. 2001-069526, Pub. Date: 16 March 2001, Patent Abstracts of Japan
	T	Abstract of Japanese Patent Publication No. 2001-320727, Pub. Date: 16 November 2001, Patent Abstracts of Japan
	U	Abstract of Japanese Patent Publication No. 2002-027491, Pub. Date: 25 January 2002, Patent Abstracts of Japan
	V	Abstract of Japanese Patent Publication No. 2002-315015, Pub. Date: 25 October 2002, Patent Abstracts of Japan
	W	Abstract of Japanese Patent Publication No. 2002-354498, Pub. Date: 06 December 2002, Patent Abstracts of Japan

<b>Examiner Signature</b>		<b>Date Considered</b>	
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Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449/PTO		Application Number	10/554,174
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		First Named Inventor:	Ikuo HAYAISHI
		Art Unit:	2621
		Examiner Name:	
		Attorney Docket Number:	MIPFP170
Sheet	2	of	2

### U.S. Patent Documents

Examiner Initial	Cite No.	Document No.	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
	A-2				
	B-2				
	C-2				
	D-2				
	E-2				
	F-2				
	G-2				
	H-2				
	I-2				
	J-2				
	K-2				

### Foreign Patent Documents

Examiner Initial	Cite No.	Foreign Patent Document No.	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	Translation	
						YES	NO
	L-2	EP 0 429 992	06/1991	Haruki et al.			
	M-2						
	N-2						
	O-2						
	P-2						
	Q-2						

### Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	R-2	
	S-2	
	T-2	
	U-2	
	V-2	
	W-2	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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